



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Kimelman Art Unit 2193 Applicant:

Serial No.: 10/073,630 Examiner: Mitchell, Jason D.

Filed 02/11/2002

Title Program components having multiple selectable implementations

Mail Stop Appeal Brief - Patents

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

BRIEF ON APPEAL

(1) Real Party in Interest

The assignee of record, International Business Machines Corporation, is the real party in interest.

Related Appeals and Interferences (2)

None known.

(3) Status of Claims

Claims 1-13 are pending in the case. (See Appendix of Claims.) Claims 1-13 were rejected under 35 U.S.C. §103(a) as being obvious in view of certain prior art. The rejections of all of the pending claims are being appealed.

10/03/2006 MGEBREM1 00000037 500510 10073630 500.00 DA

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September 27, 2006 Date of Deposit

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Michael J. Buchenhorner

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(4) Status of Amendments

No substantive amendments have been made since the Final Office Action dated March 23, 2006.

(5) Summary of Claimed Subject Matter

Claim 1

The claimed invention includes a method of minimizing the cost of using a component of a computer program [specification page 1, paragraph 0006], the method comprising the steps of: instrumenting the aforesaid component to gather cost-related information during at least a partial run of the aforesaid program [specification page 1, paragraph 0008]; using the cost-related information to estimate a cost for using each of a plurality of explicitly selectable implementations of a component in running the program [specification page 1, paragraph 0009]; based on the costs estimated, selecting, at runtime, one of the plurality of explicitly selectable implementations for a subsequent at least partial run of the program [specification page 1, paragraph 0010].

Claim 5

Claim 5 recites a computer readable medium counterpart of claim 1 and stands or falls with claim 1 for purposes of this appeal.

Claim 9

Claim 9 recites a computer program counterpart of claim 1 and stands or falls with claim 1 for purposes of this appeal.

(6) Grounds of Rejection to be Reviewed on Appeal

The grounds of rejection to be reviewed on appeal are:

1. Did the Examiner properly reject claims 1-11 under 35 U.S.C. §103(a) as being unpatentable over Bates et al. (U.S. Patent 6,360,360) in view of Beadle (U.S. Patent 6,530,075)?

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2. Did the Examiner properly reject claims 1-13 under 35 U.S.C. §103(a) as having being unpatentable over Raverdy et al. (U.S. Patent 6,324,619) in view of Blake (U.S. Patent 5,752,038)?

(7) Argument

Rejections under 35 U.S.C. §103

a. The examiner did not properly reject claims 1-11 under 35 U.S.C. §103(a) as being unpatentable over Bates in view of Beadle.

In the non-final Office Action dated September 12, 2005, the Examiner rejected claims 1-11 under 35 U.S.C. §103(a) as being unpatentable over Bates in view of Beadle. Applicant responded by pointing out that under 35 U.S.C. §103(c)(1) the subject matter of Bates shall not preclude patentability of the claimed invention under section 103. In the final Office Action, the Examiner said that "Applicant's statement regarding the co-ownership of the instant applicant [sic. Application] and the Bates reference was insufficient to invalidate the reference." Appellants did not seek to invalidate the Bates reference. Rather Appellants maintain that Bates shall not be used to preclude patentability of the claimed invention. The facts of record establish that. Based on the record this case, the Examiner must conclude that the claimed invention was made no later than the filing date of February 11, 2002. The assignment of record which was recorded on February 11, 2002 shows that as of that date the claimed invention was assigned to International Business Machines Corporation. Therefore, the statute is unmistakably clear that Bates, which is owned by IBM, cannot be used to preclude patentability of the claimed invention.

The rejection based on Bates and Beadle was not repeated in the final Office Action but the Examiner's statement indicates intent to maintain the previous rejection. Therefore, Appellants now contend that the rejection was in error and request its reversal.

b. The Examiner did not properly reject claims 1-13 under 35 U.S.C. §103(a) as being unpatentable over Raverdy in view of Blake.

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In the final Office Action, the Examiner rejected claims 1-13 as unpatentable over Raverdy in view of Blake. The Appellant contends that this was in error and thus should be reversed.

As to claim 1, the Examiner admits that Raverdy does not disclose the claim limitation of instrumenting to gather cost-related information during at least a partial run of the program. See final Office Action, page 5. Further, the Office Action does not show the presence of this step in the Blake reference. Therefore, the element is missing from the cited combination of references.

Blake relates to a method and system for determining an optimal placement order for code portions within a module to improve locality of reference and reduce the working set of the module. Blake discloses the reduction of the working set of a module. The optimal placement order for code portions within a module reflects the concurrency of usage for code portions during execution of the module. That is, all code portions which execute within a certain period of time are placed in close proximity to each other within the executable module. This method of "time ordering" reduces the working set of a module. However, Blake does not teach or suggest using cost-related information as claimed. A code segment is not the same as or the equivalent of alternative implementations of components as claimed. The Examiner defends the rejection by arguing that "one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references." The Examiner's reliance on In re Keller is misplaced. In Keller, the Patent and Trademark Office had established a prima facie case of obviousness. The Examiner "bears the initial burden . . . of presenting a prima facie case of unpatentability. "In re Oetiker, 977 F.2d 1443, 1445, 24 USPQ2d 1443, 1444 (Fed. Cir. 1992). In this case, Appellants contend that there is no prima facie case of obviousness. It is not Appellant's burden to establish non-obviousness. Moreover, pointing out that neither of the cited references discloses a claim element must be shown by discussing each of the references. Citing a combination does not relieve the Patent Office of its burden. Therefore, the cited combination of references neither teach nor suggest using the cost-related information as claimed and no prima facie case of obviousness has been made. Therefore, Appellants request reversal.

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Respectfully submitted,

Date: September 27, 2006

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Appendix of Claims

1. A method of minimizing the cost of using a component of a computer program, the method

comprising steps of:

instrumenting said component to gather cost-related information during at least a partial

run of said program;

using the cost-related information to estimate a cost for using each of a plurality of

explicitly selectable implementations of a component in running the program; and

based on the costs estimated, selecting, at runtime, one of the plurality of explicitly

selectable implementations for a subsequent at least partial run of the program.

2. The method as set forth in claim 1, wherein a default implementation is used during the at

least partial run.

3. The method as set forth in claim 1, wherein the selecting step is carried out by an other

component operable as a controller.

4. The method as set forth in claim 1, wherein the selecting step is carried out by an application

program.

5. A computer readable medium including computer instructions for carrying out a method of

minimizing the cost of using a component of a computer program, the method comprising steps

of:

instrumenting the component to gather cost-related information during at least a partial

run of said program;

using the cost-related information to estimate a cost for using each of a plurality of

explicitly selectable implementations in running the program; and

based on the costs estimated, selecting, at runtime, one of the explicitly selectable

implementations for a subsequent at least partial run of the program.

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6. The computer readable medium as set forth in claim 5, wherein a default implementation is

used during the at least partial run.

7. The computer readable medium as set forth in claim 5, wherein the selecting step is carried out

by an other component operable as a controller.

8. The computer readable medium as set forth in claim 5, wherein the selecting step is carried out

by an application program.

9. A computer program comprising a plurality of components which interact during running

thereof, at least one of the components comprising:

a) a plurality of explicit selectable alternative implementations;

b) a common interface and semantics for receiving messages from another one of the

components and sending messages thereto;

c) an instrumentation for gathering cost-related information during at least a partial run of

the computer program;

d) a cost estimator for using the cost-related information to estimate a cost for using each

of the explicit selectable alternative implementations; and

e) a selector for choosing, at runtime, one of the alternative implementations in response

to a message received at the interface from one of an application program and another one of the

components.

10. The computer program as set forth in claim 9, wherein one of the alternative implementations

comprises a default implementation which is operational before operation of the selector.

11. The computer program as set forth in claim 9, the selector being operable to choose an

alternative implementation based upon a cost measurement by the instrumentation.

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12. The method of claim 1 further comprising a step of providing the component with the plurality of explicit selectable implementations which share a common component interface and

semantics.

13. The method of claim 5 further comprising a step of providing the component with the plurality of explicit selectable implementations which share a common component interface and

semantics.

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Evidence Appendix

None.

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Related Proceedings Appendix.

None.

PTO/SB/17 (07-06)

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Effective on 12/08/2004.				Complete if Known					
FEETDANICALITY				Application Number		10/073,630			
FEE TRANSMITTAL				Filing Date Fe		February 11, 2002			
For FY 2005				First Named Inventor		Kimelman			
Applicant claims small entity status See 37 CED 1 27				Examiner Name Ja		Jason D. M	Jason D. Mitchell		
Applicant claims small entity status. See 37 CFR 1.27			Art Unit 2193		2193	93			
TOTAL AMOUNT OF PAYME	ENT (\$)	500.00		Attorney Docket	No.	YOR92002	0023US2		
METHOD OF PAYMENT (check all that apply)									
Check Credit Card Money Order None Other (please identify):									
Deposit Account Deposit Account Number: 50-0510 Deposit Account Name: IBM/TJ Watson									
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)									
Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee									
Charge any additional fee(s) or underpayments of fee(s)									
under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card									
information and authorization on PTO-2038. FEE CALCULATION									
1. BASIC FILING, SEARCH, AND EXAMINATION FEES									
T. BASIC FILING, SEARC	FILING F			CH FEES	EXAI	MINATION F			
Application Type	<u>S</u> Fee (\$)	mall Entity Fee (\$)	Fee (\$	Small Entity	Fee	Small Er		Fees Paid (\$)	
Utility	300	150	500	1 <u>Fee (\$)</u> 250	20		71		
Design	200	100	100	50	13				
Plant	200	100	300	150	16				
Reissue	300	150	500	250	60				
Provisional	200	100	0	0		0 0			
2. EXCESS CLAIM FEES		100	·	v		•	Sr	nall Entity	
Fee Description							(\$)	Fee (\$)	
Each claim over 20 (inc	.ac)			5 20	-	25 100			
Each independent claim over 3 (including Reissues) Multiple dependent claims							50	180	
Total Claims E	Fee	Paid (\$)		Multiple Dependent Claims					
			_=			<u>Fee</u>) (\$)	Fee Paid (\$)	
HP = highest number of total cl	•	-	F	Daid (A)					
Indep. Claims									
HP = highest number of independent claims paid for, if greater than 3.									
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer									
listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50									
sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$)									
100 = / 50 = (round up to a whole number) x = 4. OTHER FEE(S) Fees Paid (\$)									
Non-English Specification, \$130 fee (no small entity discount)									
Other (e.g., late filing surcharge): Appeal Brief \$500							\$500.00		

SUBMITTED BY						
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Name (Print/Type) Michael J. Buchenhorner			Date September 27, 2006			

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.